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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/943,739	09/04/2001	Christian Kunert	SGW-110	8521
23599 75	90 07/20/2004		EXAMINER	
MILLEN, WHITE, ZELANO & BRANIGAN, P.C.			WALLS, DIONNE A	
2200 CLAREN	DON BLVD.		·	
SUITE 1400			ART UNIT	PAPER NUMBER
ARLINGTON,	VA 22201		1731	

DATE MAILED: 07/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	<u> </u>				
	09/943,739	KUNERT ET AL.					
Office Action Summary	Examiner	Art Unit					
	Dionne A. Walls	1731					
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet \	vith the correspondence address	;				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a seply within the statutory minimum of the od will apply and will expire SIX (6) MO ute, cause the application to become a	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communic ABANDONED (35 U.S.C. § 133).	ication.				
Status							
1) Responsive to communication(s) filed on 30	June 2004.						
2a) ☐ This action is FINAL . 2b) ☑ Th	nis action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
 4) Claim(s) 1, 3-4,6-14 and 16-22 is/are pendin 4a) Of the above claim(s) is/are withdrest 5) Claim(s) 4 and 17 is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and 	rawn from consideration.						
Application Papers							
9) The specification is objected to by the Exami	ner.						
) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the	•						
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in riority documents have been received in eau (PCT Rule 17.2(a)).	Application No en received in this National Stage	e				
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	Paper N	/ Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (PTO-152) 					

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DETAILED ACTION

Reopening of Prosecution

Applicant's arguments filed on June 30, 2004 with respect to the rejection of claims 1-14 and 16-22, which used Krumwiede et al as a primary reference, has been fully considered and is persuasive. Therefore, the FINALITY of the rejection of the last Office Action, dated April 1, 2004 has been WITHDRAWN. However, upon further consideration, a new ground of rejection is made over Kremers (US. Pat. No. 2,155,315). In view of the discovery of the above-cited art, PROSECUTION IS HEREBY REOPENED as set forth below.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1 and 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claims 1 and 9 recite the limitation "its orifice". There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 1,3, 16 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kremers (US. Pat. No. 2,155,315).

Regarding claims 1 and 18, Kremers discloses a device which comprises a mixing/cooling tube 13,20,22 and a jacket 25 that encases the tube up to its orifice (see fig.2), wherein the tube is constructed of platinum, or of some other material lined with platinum, and wherein the jacket is provided with a cooling fluid (see page 1, and fig. 2). While the Kremers reference may not specifically state that the device of its invention is utilized for the purpose of introducing a gas into a hot medium, it is still deemed to be readable on the claims since a claim containing recitation with respect to the manner in which a claimed article is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus if the prior art apparatus teaches all the structural limitations of the claim. See MPEP 2114. Further, the device of Kremers is capable of being used to introduce a gas into a hot medium; therefore, the preamble claim limitations articulating this function do not patentably distinguish the claim from the reference.

Regarding claim 3, while Kremers may not specifically state that the cooling fluid present in the cooling jacket is a gas, oil, water, aqueous solution or mixture of the above, it would follow that one having ordinary skill in the art would obviously chose any one of these materials as a coolant since these, especially water, are typically used for cooling purposes.

Regarding claim 16, since Kremers states that the tube can be fabricated of some other material lined with platinum, it would have been an obvious choice to select

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steel for the pipe's core material since this material is conventionally used, due to its cheap cost and wide availability.

Allowable Subject Matter

- Claims 4 and 17 are allowed. 6.
- 7. Claims 6-14, and 19-22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dionne A. Walls whose telephone number is (571) 272-1195. The examiner can normally be reached on Mon-Fri, 7AM - 4:30PM (Every other Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven P. Griffin can be reached on (571) 272-1189. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dionne A. Walls Primary Examiner Art Unit 1731

July 15, 2004